

Pines of Green bay assormania E. P. Austri 1865 Hier balsames here a very slender tree 30=40 feel high, all comes within 5006 feel of the Summit. Luga Cambring Lange Ann Fam Pirea alba at Little Sturgeon Day. 25-30 feels
high: 6 who diant, mes only went the
summer of the tree. Inthe Times Banks, ama 30- 50 and own be feet Light as much of 12-18 inder Same The Moling Pin resinos lita nøgne





Mise baloames have any clouder their The commence of the second Dr. Engleman. mile stlege They Same if he will call, to see hen to my. The Till for the formation of the section MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS





abies Duroi Lik Carlehm. Fin A. belson et Pirea Sumi Lich Poster James P. alla P. higna Spruce Fir (Saprin f.) Abies, Townful mutt Lylva p. 128 1. abies (proper). sales of com decides, author transvery a. alla, white Spruce fir a. Songlesii Dougles Spruce fir a. Mengicsi Mengins Sprume fin 2. Pirca soles puristant & author opening longita a. muderis Hemlock Sprune fin 9. grandis græd Silver fir a mbli a balsame Belsamfan Michany Sylva: Black Spring Pica White Spine Huntock Sprice Songe Course Silver for o

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GARDEN

MISSOURI
BOTANICAL
GARDEN

APOTHECARY AND CHEMIST.

Marble Building. cor. 4th and Olive Sts...

ST. LOUIS, Mo.

MISSOURI BOTANICAL GARDEN
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In 1863 Mietinere 20c) Endryo convid Embryo etnight

Wing covering entire back of seed

framly addering to it, which dans Juga-Detached from it prompting the edges of firmly included it at last breaks of AGies slightly over lops the edge, sottet seed at last sops out lica Wing covering more or len of the Rim only of the seed books whether all last separation Much Wing rowing the cution back of seed. fisher adlaning to it Ce de 18 aubys rung enérs strift Lanx ( Ceans for and Touga Pos Ceans dingle at tothe the head Alien) belfing endoring il 沙沙之之 letting seed drop ont Osmaling over the edges of the seed only enriches Pina Six 01000

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attbrielina comy Cohes annual Scales 'se parating from the axis Brief foliares SSInet. Moies Cedrus (sinces who mister, graning) Soules persistent, brots forhieren, usully smill Las X Sirea. Juga-Conas Grennice v Tremial Scales persistent, Thickens with læge apophyses, but lignen formite with & sole, indstinit MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS MISSOURI

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Febr. 1863 Abies cones erectis, 29. Deoideis amebilij Forb bracteata Hook (venusta Gouge). grandis Lime Casioranna Link mestensia Lunc nobile, Luce Truga somes pudulis 19. pensistantis polis placies detiches Canadansi Douglasi' ( Tax folei) Milliam, og, pen stutel, folis telingonis spensis Sirea Brain public Bitcheasig Com = May'csi Californiez Cam. I'mus lalba 1) folier anstate Lag. flexiles James (rembronder Mente?) Lenbertrace Lungl etous former, tag, Stroberg Li (monterols dough, nivea Booth?)

2 fearsey and Parry

2 fe 3 conbrowles Jever (orteo spenne by Laveau Khird) fol 2-3 Chi heaheean leg. Coulten Don (mærrytglle legle un Lwe) fl 3-5 agelorami Comin heterophylla Brase fol 1-5 insignis Dougl tuberrlet, Don pådiate don. Man Sulvikiana Hork Panyi ly (Daveaux Tom) 3-5 fol Marky ponderora Dough (Beautslie Mum Bankerhen Hacher. Bruchysten lag Engeleenmi Tom Sinclainiana Hook a Am Danksian Land municate Son (Edganiana Harles) edulis Eng restara De 4. Al monopheller Ton & Tra.

0 1 2 3 4 5 6 7 8 9 10


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Output

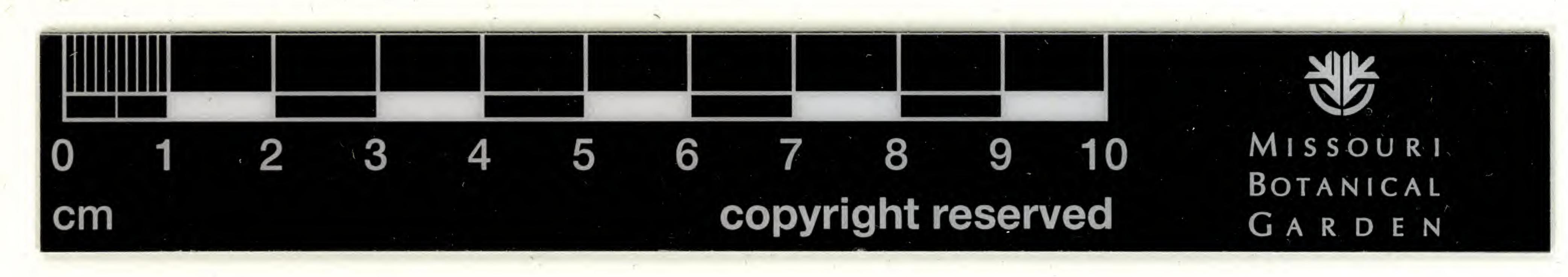
MISSOURI

BOTANICAL

GARDEN



. Letter to Gray Febr 27. 1865 In going over the whole ground, after a fell examination into the mule & semile flower Amil at folinge of I find all the & sections of subgenen of (Vinus the Linnaen) excellently well characterized with the exception of Lanx Isuga. The former has ferritulated devideous leaves and sessile male at female anicats, the foother distiches leaves pensistent) and stipitale mule I pedalle ( termial) somale amout, and these rather somessential chamiters constitute the whole at sole difference between their, male flower, conthers, puit and seed an not be distinguished. Bithe other hand Sirea and Tsuga, so often united, are easily dolly with by numers chamiter, and so is Cedrus and Larry, allied ofther wise by Then ferrialed Ceaves. Therefore all the apparently great at essential Déferences of the structure at thehis reure of anthers, of the cones as of the red of can not Isturb the old Linneau Janes Pines! We will have to follow The old muster as has Jone Hooken at Padliker at Isrand The Gening



Non No. 1. comolor. frit enet. N. 828

2. Sput Brand Shipho.

3. delis

20 830 4 brukgplen , 90 ~ 100 831 5 flegilis 60-80' 832 20 ful 20 ful 323 8-15-feel 8 3 5 wood 12-25/al 8 35 1-2/2 fost \$36 MISSOURI BOTANICAL

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GARDEN

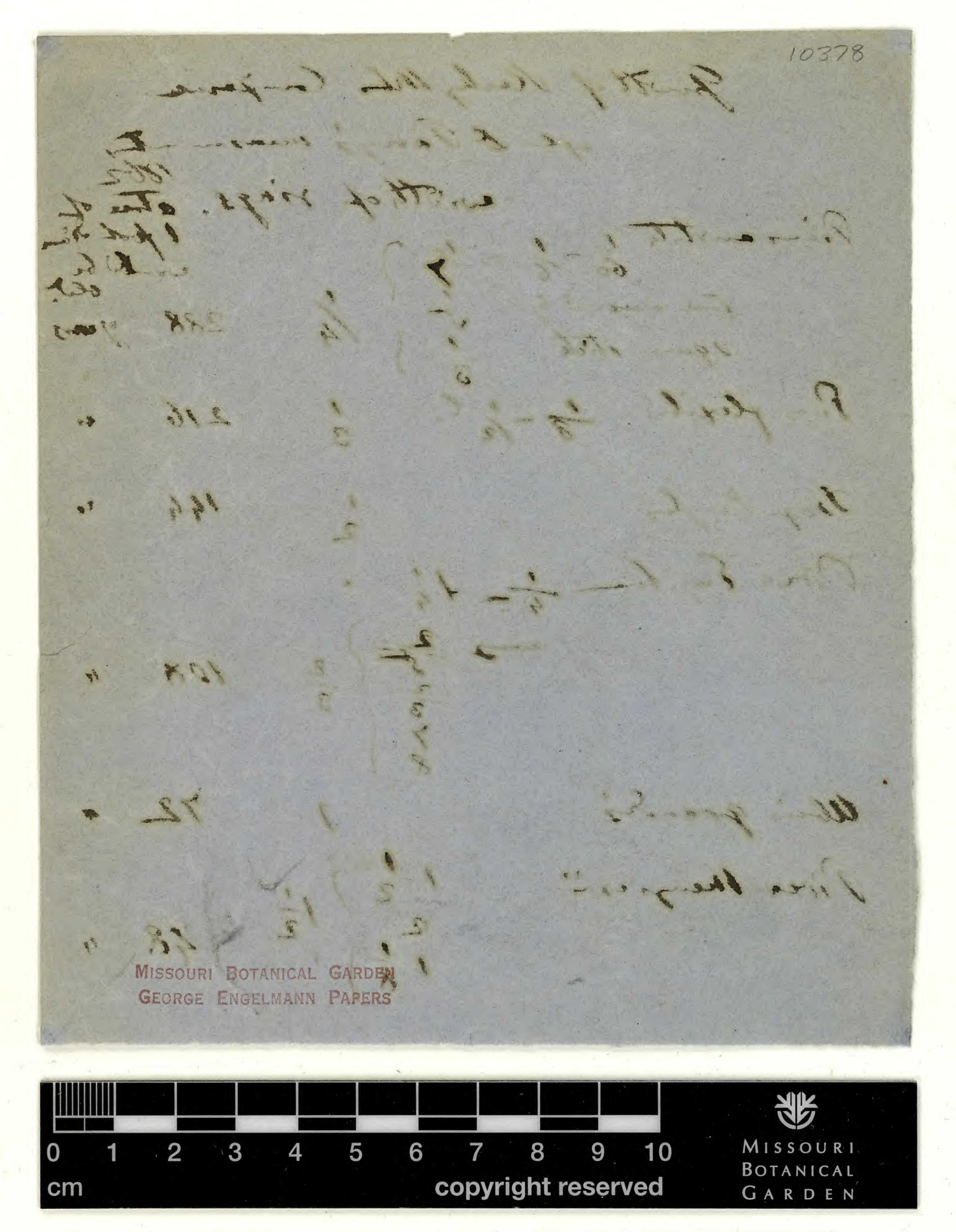
cm

er only a negative result! The conformation of the surface which to a limited extent to be sure is owing to the geological structure) and the chemical composition of The soil and The substrata had no doubt a rous, den ble influence on the diseases of the menty region but the geological formation as such I firmly believe to have none Four Then for by to be excused from further Howing up the There duban Men any further MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS



goott of Rocky Mh. Companie pe & Dany; mas ...... Pin flexilis - 1/2 1 216 m Tonge Songles 1 144 Ora Engelm it 1: ans 3 2 2 3 alli, grandi 722 Pirea Menzieri 1つで 1分 48





An 16. 1865 Como Chorles anhugels Scales separating from axis ony readily & bracks foliaceous distinct Abies
only it last; bracks liqueous, indistinct Cedrus \* Scales persistent, bruts foliores da. Lanx Comes bienniel or tremmiel, Scales persistent, the kened Pinus Grate Cogneous institut. Pinus & Soley which in the steeps Leeps close, when mostled wither hygromuturlly per ledry e Pere Jopen Cor Fifth & Market Sis Si Inounts DIETT SELLE

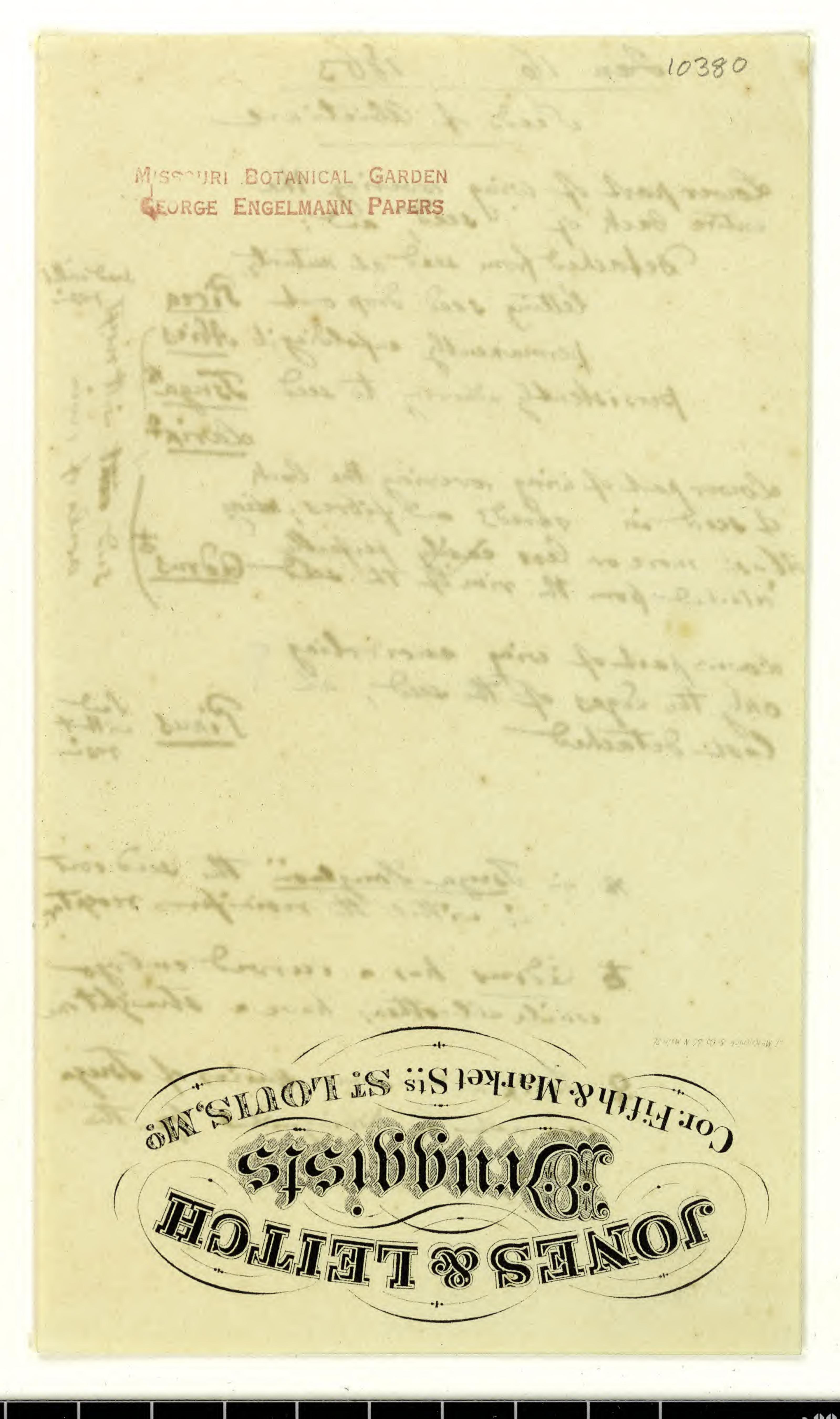
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Jan 16 1963 Les Alptine Wing covering the author back of seed detacked from seed of metherity and detting see drop out Piceaux with - membrane on the buch Factor mint) Cedrus MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS





1863 Fran 16 Peeds of abietine Lower part of wing rovering the entire back of seed and:
Defached from seed at muturity,
letting seed drop out Picea persistently enfolding it Afries & spers istently adhering to seed Tsugar . s Lower part of wing overing the back of seed in shreds and fibres; wing attacked from the nim of the seed admis ? down part of wing enertaling only the edges of the seed, at I less detached Pinus Linut \* i Tsuga Douglasi The seed cost to Cedows has a curved embryon while all other, have a straight me & Lange some speries of Souge can not be Ashingwille by the

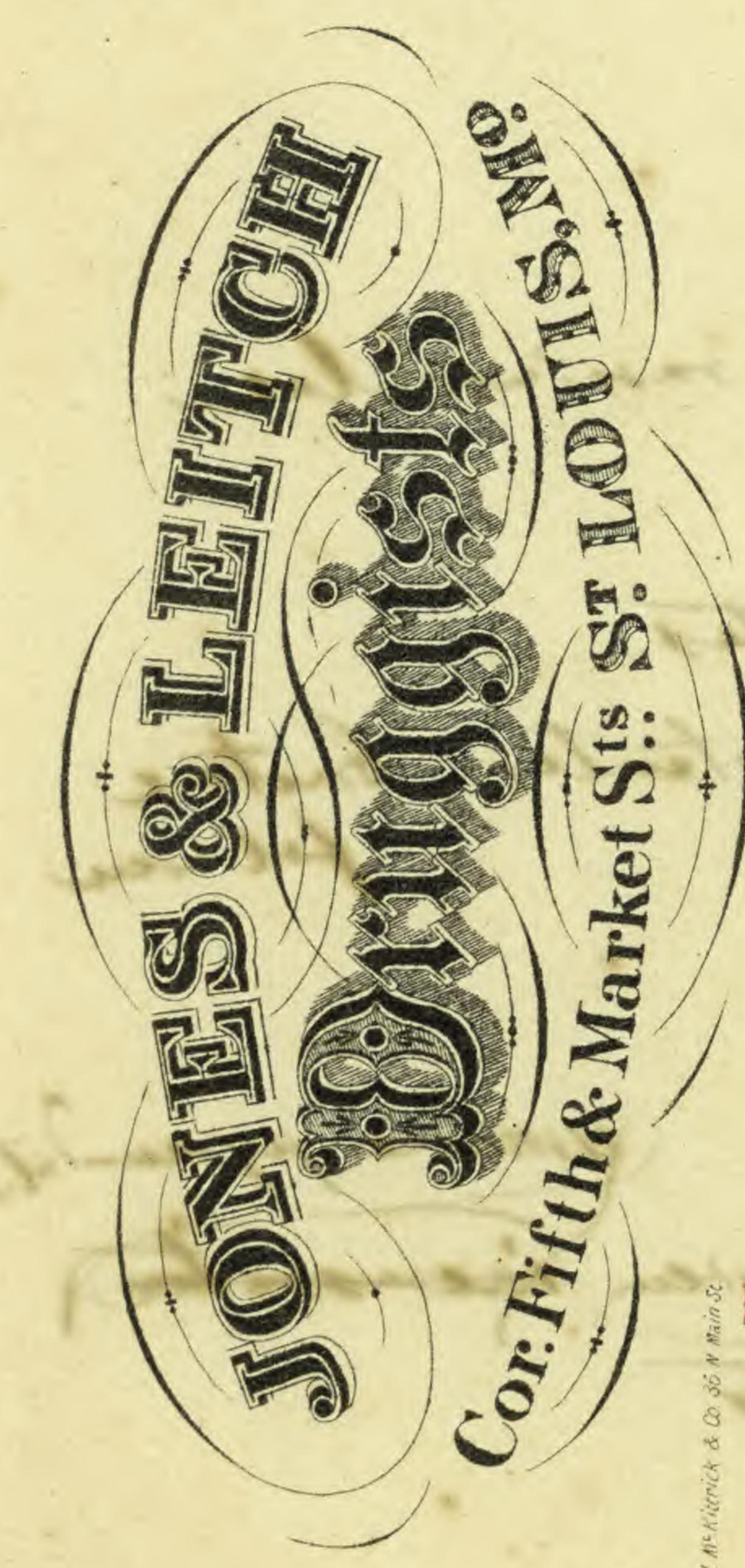




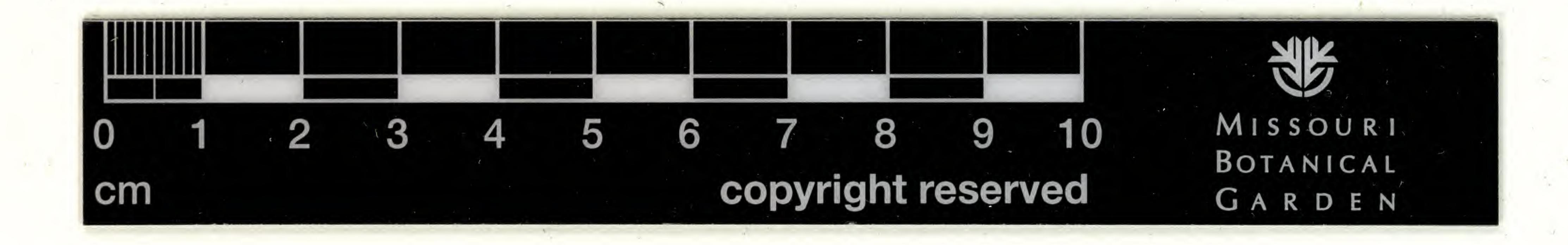


26 18 Conjerannen Abictinearen Mobili Strobili annui, 59 anne temuiores. Squame transverse Decidence massirable brotine dema Ciquescentes ans. Squame oblinger 1. orbivelet persistantes butter Alies Juga. bretire interdem excrescutes Lan'x Strobili biennes, squame Vorsus aprile hierster sumbore pyram ). Mica / forus





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Foniferarum Horrs Musculi Fra 18 1863 amenta strobiliformia cristas authorana solamando Commissurae authorana crista mayore semiorrolasi crenulata termicatae, lorali panllelle dehispeute, Cedrus amenta amentarea, anthems ipsas exhibentea Commissume autherarum annbore cornutae localina rimae rimae roufleunter transverse dehi rente, Juga Commissione authorismen (vistate minorit irreplace)

places miner Deutste terminate. Lordi parallele

Pinus

Pinus



